



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

22801 7590 12/11/2008

LEE & HAYES, PLLC  
601 W. RIVERSIDE AVENUE  
SUITE 1400  
SPOKANE, WA 99201

EXAMINER

WEI, ZHENG

ART UNIT

PAPER NUMBER

2192

DATE MAILED: 12/11/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/611,688

06/30/2003

Matthew E. Miller

MS1-1615US

5312

TITLE OF INVENTION: GENERATION OF CONFIGURATION INSTRUCTIONS USING AN ABSTRACTION TECHNIQUE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/11/2009

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

22801 7590 12/11/2008

LEE & HAYES, PLLC  
601 W. RIVERSIDE AVENUE  
SUITE 1400  
SPOKANE, WA 99201

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/611,688 06/30/2003 Matthew E. Miller MS1-1615US 5312

TITLE OF INVENTION: GENERATION OF CONFIGURATION INSTRUCTIONS USING AN ABSTRACTION TECHNIQUE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/11/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
WEI, ZHENG	2192	717-107000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,688	06/30/2003	Matthew E. Miller	MS1-1615US	5312
22801	7590	12/11/2008	EXAMINER	
LEE & HAYES, PLLC 601 W. RIVERSIDE AVENUE SUITE 1400 SPOKANE, WA 99201			WEI, ZHENG	
			ART UNIT	PAPER NUMBER
			2192	
DATE MAILED: 12/11/2008				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 717 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 717 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/611,688	MILLER ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	ZHENG WEI	2192	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/15/2008.
2. ☒ The allowed claim(s) is/are 1-13, 16-36 (re-numbered as 1-34).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.  
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.  
**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

/Tuan Q. Dam/  
Supervisory Patent Examiner, Art Unit 2192

### **DETAILED ACTION**

#### ***Remarks***

1. This office action is in response to the amendment filed on 09/15/2008.
2. Claims 1, 2-4, 6, 7-12, 14-16, 17-23, 24, 29 and 37-40 have been amended by the Applicants.
3. Claims 1, 6, 16, 24 and 29 are now being further amended by the Examiner.
4. Claims 14, 15 and 37-42 have been cancelled by the Examiner
5. Claims 1-13 and 16-36 remain pending and now being allowed (re-numbered as claims 1-34)

### **EXAMINER'S AMENDMENT**

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
7. Authorization for this examiner's amendment was given in a telephone interview with Shirley Lee Anderson (Reg# 57,763) on 12/05/2008 to obviate any potential 35 U.S.C. § 112 issues, and to put the claims in condition for allowance.
8. The application has been amended as follows:

### **IN THE CLAIMS**

**Please cancel claims 14, 15 and 37-42, and amend claims 1, 6, 16, 24 and 29 as follows:**

**Claim 1 (Currently amended):**

A system for generating configuration instructions to build a programmable machine that transfers the programmable machine from a generic machine into a specific machine that serves a specified role, comprising:

a memory;

a processor coupled to the memory;

a build management logic configured to automate building by interacting with a library that is in a standardized and a generic form, wherein the generic form allows common building blocks to represent many different configuration options[;],

wherein the library comprising:

a plurality of objects representing aspects of a configuration process for a specific collection of programmable machines; ~~and~~

a plurality of parameters associated with respective objects, wherein at least one of the parameters includes an unspecified value for the generic form; and

the plurality of objects having attributes of an internal identification assigned to an object, a name assigned to the object, a description of the object, a version number of the object, an individual authorized to perform action on the object, an ID assigned to an owner of the object, and a parent of the object;

wherein the build management logic configured to;

specify a set of objects from the library to implement the configuration of the programmable machine, and to generate the configuration instructions from the set of objects;

~~the build management logic~~ interact[s] with a database, wherein the database includes packages which are collections of objects in the database assembled to be transferred from a site to another site;

~~the build management logic~~ interact[s] with a template storage providing templates, wherein the templates provide a skeleton representation of a machine or a group of machines and the templates may be exported and transferred to other sites to generate configuration instructions at the other sites;

~~wherein the build management logic is further configured to determine [an]~~  
the unspecified value when generating configuration instructions for the specific combination of programmable machines; and  
the unspecified value is resolved by the build management logic looking to a next higher node in a site tree to determine whether that node can resolve the unspecified value, wherein the site tree is a hierarchical organization of objects in the library that are representative of machines to be configured at the site; and

~~the build management logic is further configured to provide a user~~  
interface to manage data assignment for the specific collection of programmable machines, wherein the user interface accepts input and returns output; and

an automatic purposing logic configured to provide functionality for manipulating a collection of scripts and associated parameters that are assembled to create the configuration instructions as the output of the user interface.

**Claim 6 (Currently amended):**

A system for generating configuration instructions used to build a programmable machine that transfers the programmable machine from a generic machine into a specific machine that serves a specified role, comprising:

a memory;

a processor coupled to the memory;

a build management logic configured to automate building by interacting with a library, wherein building blocks in the library form a hierarchical organization of objects that are representative of machines to be configured at a site[;],

wherein the hierarchical organization of objects represents a relationship between different features of the machines, wherein a topmost object represents an aggregate of machines to be configured at the site; and the hierarchical organization of objects provides root objects for a root site, a collection of vendors, a collection of top level operating systems, and a collection of top level machine functions;

wherein the library having building blocks to provide configuration instructions for a specific collection of machines, grouping the building blocks into different categories, objects pertaining to different available vendors, the objects pertaining to different operating systems, the objects pertaining to different machine



Art Unit: 2192

functions, and the objects related to stages and each of the stages includes multiple phases involved in configuring machines; and the library having generic objects representing aspects of a configuration process, wherein the generic form allows common building blocks to represent many different configuration options; and

a template providing;

a framework representing the programmable machine in combination with information in the library to reconstruct a description of the programmable machine;

~~the template providing~~ a standardized framework for passing information from one machine to another; and

~~the template providing~~ a pointer to a phase list which comprises multiple phases so a receiving site can reconstitute phases based on a local library at the site; and

the build management logic configured to generate the configuration instructions used to build the programmable machine by organizing the generic objects in the library based on a the framework established by the template; the build management logic configured to cull a subset of information from a database and organize information into a package to transfer from the site to another site[;], wherein the database stores a collection of objects that allow a user to manage parameter information and determine at least one unspecified value of the parameter associated with the objects by looking to a next higher node in the hierarchical organization of objects; and

the build management logic is further configured to provide a user interface displaying predetermined templates to accept input in response to the predetermined templates.

**Claim 16 (Currently amended):**

A system for generating configuration instructions used to build a programmable machine that transfers the programmable machine from a generic machine into a specific machine that serves a specified role, comprising:

a memory;

a processor coupled to the memory;

a build management logic configured to automate building by interacting with a library, wherein the library includes building blocks to provide configuration instructions for a specific collection of machines, grouping the building blocks into different categories[.]; ~~such as~~ objects pertaining to different available vendors, the objects pertaining to different operating systems, the objects pertaining to different machine functions, and the objects related to stages and each of stages includes multiple phases involved in configuring machines[.]; the build management logic further configured to specify a set of objects from the library to implement the configuration of the programmable machine, and configured to generate the configuration instructions from the set of objects;

wherein, the library ~~having~~ comprising:

a plurality of generic objects representing aspects of a configuration process for the programmable machine; and

a plurality of parameters associated with respective generic objects;

a template providing a framework in combination with the library to reconstruct a description of the programmable machine[;], ~~the template providing a standardized framework for passing information from one machine to another machine; and the template providing a pointer to a phase list~~ which comprises multiple phases so a receiving site can reconstitute the phases based on the library at the site;

~~build management logic configured to specify a set of objects from the library to implement the configuration of the programmable machine, and configured to generate the configuration instructions from the set of objects; and~~

a user interface configured to allow a user to interact with the build management logic[;], wherein the user interface displays predetermined templates to accept input in response to the predetermined templates.

**Claim 24 (Currently amended):**

A method for generating configuration instructions used to build a programmable machine that transfers the programmable machine from a generic machine into a specific machine that serves a specified role, comprising:

a build management logic configured to automate building by interacting with a library[;], wherein the library having:

Art Unit: 2192

a plurality of objects representing aspects of a configuration process for a specific collection of programmable machines[;], wherein the plurality of objects having attributes of an internal identification assigned to an object, a name assigned to the object, a description of the object, a version number of the object, an individual authorized to perform action on the object, an ~~ID~~ identifier assigned to an owner of the object, and a parent of the object; and

a plurality of parameters associated with respective objects, wherein at least one of the parameters includes an unspecified value[;], wherein the unspecified value is resolved by the build management logic looking to a next higher node in a site tree to determine whether that node can resolve the unspecified value[;], wherein the site tree is a hierarchical organization of the plurality of objects;

specifying a set of objects from the library to implement the configuration of the programmable machine; ~~and~~

generating the configuration instructions from the set of objects for the specific combination of programmable machines, including determining the value of the unspecified value;

providing packages which are collections of objects in a database assembled together as a single file to be transferred from a site to another site;

providing a template to provide a skeleton representation of a machine or a group of machines and the template may be exported and transferred to other sites to generate configuration instructions at the other sites;

filling out the template that governs an organization and a nature of the group of machines;

filling out [a] the template that governs a makeup of individual machines in the group of machines;

~~wherein generating configuration instructions for the specific combination of programmable machines; and~~

providing a user interface by the build management logic ~~is further configured to provide a user interface~~ to manage data assignment for the specific collection of programmable machines, wherein the user interface accepts input and returns output, wherein the output is the configuration instructions for the specific collection of programmable machines.

**Claim 29 (Currently amended):**

A method for generating configuration instructions used to build a programmable machine that transfers the programmable machine from a generic machine into a specific machine that serves a specified role, comprising:

providing a library having generic objects representing aspects of a configuration process for a specific collection of programmable machines;

building blocks in the library form a hierarchical organization of objects that are representative of machines to be configured at a site[;], wherein the hierarchical organization of objects represents a relationship between different features of the

Art Unit: 2192

machines, wherein a topmost object represents an aggregate of machines to be configured at the site[;], ~~and the hierarchical organization of objects~~ provides root objects for a root site, a collection of vendors, a collection of top level operating systems, and a collection of top level machine functions;

wherein the building blocks provide configuration instructions for a specific collection of machines, grouping the building blocks into different categories, objects pertaining to different available vendors, the objects pertaining to different operating systems, the objects pertaining to different machine functions, and the objects related to stages and each of the stages includes multiple phases involved in configuring machines;

providing a template, wherein the template to give a skeleton representation of a machine or a group of machines and the templates may be exported and transferred to other sites to generate configuration instructions at the other sites;

determining the value of the unspecified value for the object by looking to a next higher node in hierarchical organization of the objects to resolve the unspecified value;

generating configuration instructions used to build the programmable machine by organizing the generic objects in the library based on a framework established by [a] the template;

wherein generating configuration instructions for the specific combination of programmable machines established by the template;

providing packages which are collections of objects in a database that are assembled as a single file to be transferred from a site to another site;

~~providing the template to give a skeleton representation of a machine or a group of machines and the templates may be exported and transferred to other sites to generate configuration instructions at the other sites;~~

providing a user interface to manage data assignment for the specific collection of programmable machines, wherein the user interface accepts input and returns output, wherein the output is the configuration instructions for the specific collection of programmable machines.

**Claims 14-15 (Cancelled)**

**Claims 37-42 (Cancelled)**

**--END OF AMENDMENT--**

***Allowable Subject Matter***

9. Claims 1-13 and 16-36 are allowed. As Applicants point out in the remarks filed on 09/15/2008, the closest cited prior art of Kroening (US 6,080,207) and/or Dewhurst (US 6,430,609), and/or Jacquemot (US 2004/0003388) fails to teach or fairly suggest the method and the system for system for generating configuration instructions to build a programmable machine that transfers a programmable machine from a generic machine into a specific machine that serves a specified role by using template, packages, objects in generic library and an inheritance mechanism for automatically

Art Unit: 2192

resolving unspecified parameter values of the objects by searching through a hierarchy of objects to determine the unspecified values as recited in claims 1, 6, 16, 24 and 29.

. In as such manners as recited in independent claims 1, 6, 16, 24 and 29 and each of the dependent claims are allowable for at least the same reasons.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zheng Wei whose telephone number is (571) 270-1059 and Fax number is (571) 270-02059. The examiner can normally be reached on Monday-Thursday 8:00-15:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571- 272-1000.



Art Unit: 2192

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Z. W./  
Examiner, Art Unit 2192

/Tuan Q. Dam/  
Supervisory Patent Examiner, Art Unit 2192